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	Serogr	oup A	Serog	roup C
Method	Pre (n=35)	Post (n=35)	Pre (n=35)	Post (n=35)
SBA	612	10,023	46	2,649
OP	412	16,712	86	4,993

FIG. 1

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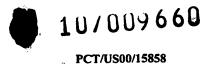


Table 2. Competitive inhibition of opsonophagocytic activity of reference sera after absorption with specific serogroup A and C Neisseria meningitidis polysaccharide (200 µg/ml)

	s	erogroup A		s	erogroup C	
CDC reference sera	Titer Before Absorption	Titer After Absorption	% decrease	Titer Before Absorption	Titer After Absorption	decreas)
205	1024	4	99.6	256	4	98.4
209	1024	4	99.6	4096	8	99.8
	1024	8	99.2	512	8	98.4
219	512	4	99.2	256	4	98.4
233		4	98.4	128	4	96.8
243 Mean % dec	256		99.2	Mean % decr	8835	98.4

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Table 3. Correlations of SBA, OP and ELISA (µg/ml) concentrations (n=70) for Neisseria meningitidis serogroups A and C

	Serogroup A	-		Serogroup C	
ELISA VS SBA	ELISA vs OP	SBA vs OP	ELISA va SBA	ELISA v3 OP	SBA vs OP
r=0.89 p <0.01°	r=0.83 p <0.01	r=0.75 p <0.01	r=0.85 p <0.01	r=0.74 p <0.01	r-0.79 p <0.01

a. Pearson's correlation

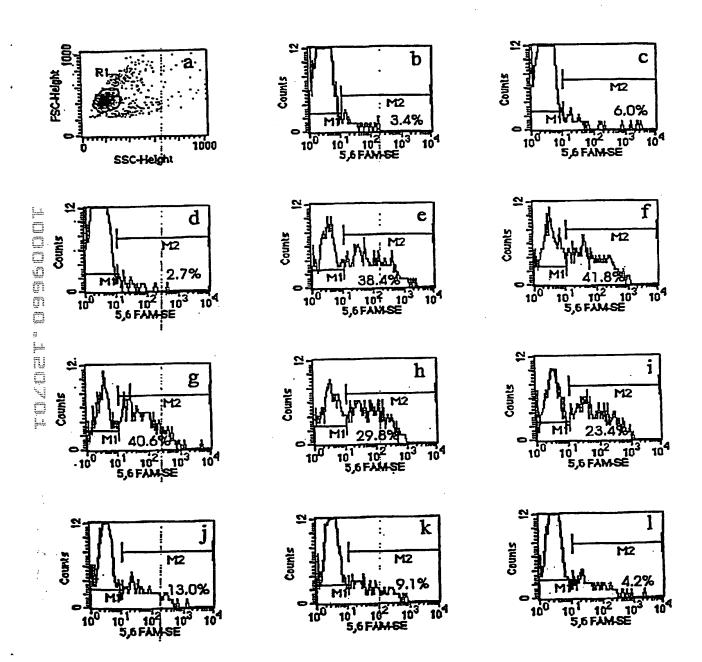


Fig. 4



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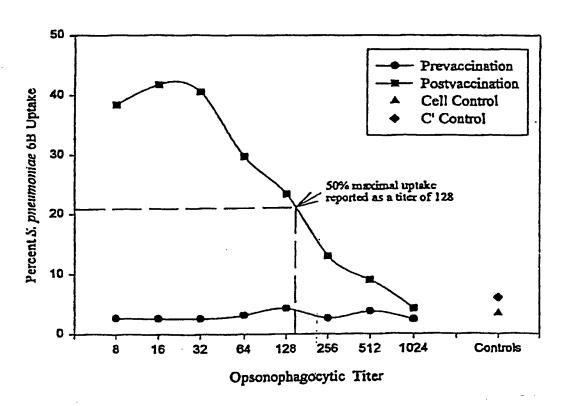


Fig. 5

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Table 1. Competitive inhibition of opsonophagocytic activity with type-specific polysaccharide.

	:	Opsonophagocytic activity	ty.	Average percent
Serotype.	Median (iter	Range	Median titer after	inhibidon
4	2048	512 to 2048	Ą	1.66
6B	128	64 to 512	4	97.0
Λ6	512	256 to 2048	4	6'66
14	512	256 to 512	4	6'86
18C	256	128 to 512	4	6'86
19F	128	64 to 256	4	6'96
23F	128	64 to 512	4	6.96

*Scrotype of Streptococcus pneumoniae.

^bAll titers in the presence of 0.5 mg/ml of homologous Ps were <1:8, and were reported as a titer of 4 for analysis purposes.

Percent inhibiton of opsonophagocytic activity after addition of typo-specific polysaccharide.

Fig. 6

:44

TABLE 2. Correlation between the flow cytometric and manual viable opsonophagocytic assays for pre- and postvaccination serum.

Virentococcus		Geometric mean titer	mean titer			Correlation*	
pneumoniae	Flow cyr	cytometric	Manua	Manual viable	r value	P value	Slope
serotype	Pre	Post	Pre	Post	ļ		
4	v	157	\$	117	0.90	< 0.001	0.83
- 68	. 21	176	11	86	0.85	<0.001	0.80
26	٧٦	665	9	256	0.88	<0.001	0.70
. 7	2.4	562	24	352	0.87	<0.001	0.77
180	٧	83	7	63	0.89	<0.001	0.84
19F	7	98	7	53	0.95	<0.001	1.01
23F	'n	20	8	31	0.91	< 0.001	0.94

overall correlation between the two assays for all scrotypes combined was r = 0.89, P < 0.001, and slope = 0.81. Twenty-four paired "The Pearson's product moment correlation coefficient was used for the linear regression analysis between the two methods. The sera were tested to determine the correlation between the two assays.

Fig. 7

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TABLE 3. Cummulative percentage of serum samples (n = 48) analyzed by the flow cytometric opicinophagocytic assay differing in

filer as compared with the manual assay.

Dilution well difference from			Streptococcus pneumoniae Serotype	ıs pneumonl	ae Serotype		•
median manual	4	89	<u>76</u>	14	18C	19F	All
opsonophagocytosis titer							
0	59.4	45.3	43.8	39,1	20	65.6	22
7	75	70.3	59.4	76.6	78.2	8.96	75.9
ı 2	87.5	84.3	75.0	89.1	87.5	98.4	87.2
ı 5	5.86	92.1	87.5	95.4	95.3	98,4	94.6

Fig. 8